CONSUMING & EXPENDING ENERGY

WEIGHT CONTROL & **EATING DISORDERS**

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IDEAL WEIGHT

- = IDEAL
 - = MEN:11 AND 15 %
 - WOMEN: 18 AND 22%
- **■** OBESITY
 - MAN: EXCEEDS 20%
 - WOMAN: EXCEEDS 30%
- P. 256-7, TABLE 10.1 10.2

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TECHNIQUES FOR ASSESSING

- # HYDROSTATIC WEIGHING: MOST ACCURATE
- PINCH AND SKINFOLD TESTS
- BODY MASS INDEX (BMI) (AGES 20-29)
 - 6 DIVIDE YOUR WEIGHT IN KILOGRAMS BY THE SQUARE OF YOUR HEIGHT IN METERS
 - = BM = WT.(KG) (PO. DIV. BY 2.2) [HT.(CM)]2 (DIV. HT. IN INCHES BY 39.4, THEN SQUARE THE RESULT)
 - # FEMALES DESIRABLE # 21 TO 23
- MALES DESIRABLE = 22 TO 24
- BMI ABOVE 27.8 FOR MEN & 27.3 FOR WOMEN = INCREASED HEALTH RISKS

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WEIGHT CONTROL QUESTIONS

- DO WE EAT TOO MUCH OR EXERCISE TOO LITTLE?
- WHY DO FEWER THAN 5% OF ALL PEOPLE ACHIEVE PERMANENT SUCCESS ON A WEIGHT LOSS PROGRAM?

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HEREDITY

- * GENETICALLY INHERITED BODY TYPES
 - * ECTOMORPHS: TALL, SLENDER
 - **X ENDOMORPHS: ROUND, SOFT**
 - *** MESOMORPHS: MUSCULAR**
- * GENETICS
 - * TWINS RAISED APART THAT HAD **OBESE PARENTS BECAME OBESE**
- * LIFESTYLE OR GENETICS
 - * DIET & EXERCISE CAN MODIFY GENETIC **EFFECTS**

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FOOD INTAKE & METABOLISM

- **BROWN FAT CELLS**
 - SPECIALIZED FAT CELLS THAT AFFECT ABILITY TO REGULATE FAT METABOLISM
- MAY EAT FOR REASONS OTHER THAN HUNGER
- SATIETY: FULLNESS AFTER EATING
 - W VARIES DEPENDING ON CONDITIONING
- **HUNGER**
 - RESPONSE TO NUTRITIONAL NEEDS
- APPETITE
 - LEARNED RESPONSE TO FOOD

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DEVELOPMENTAL FACTORS

- # HYPERPLASIA
 - EXCESSIVE # OF FAT CELLS
- **HYPERTROPHY**
 - ABILITY OF FAT CELLS TO SWELL
- **SET POINT THEORY**
 - BODY ACTS TO MAINTAIN BODY FAT
- BASAL METABOLIC RATE
 - ENERGY BODY USES AT COMPLETE REST
 - # 60-70% OF ALL CONSUMED CALORIES
 - . SLOWS 1-2% PER YEAR AFTER 30

FACTORS TO CONSIDER

- PHYSICAL ACTIVITY MAKES A DIFFERENCE
- ONE LB OF FAT = 3,500 CAL'S EXTRA
- LOSE 1 POUND OF FAT = <3,500 CAL'S
- STRENGTH EXERCISE IMPROVES MUSCLE TONE
 - INCREASES METABOLISM AND THEREFORE ABILITY OF BODY TO BURN FAT
- A CUMULATIVE EFFECT!

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EXERCISE & WEIGHT LOSS

- RESTING METABOLIC RATE
 - # 90% OF CALORIES BURNED
- **EXERCISE METABOLIC RATE (EMR)**
 - 10% OF CALORIES BURNED
 - INCREASE EMR INFLUENCE WEIGHT LOSS!
 - BIGGER CONTRIBUTION TO BMR BY USING LARGE MUSCLE ACTIVITY

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CHANGING TRIGGERS AND SUBSTITUTE ACTIVITIES

- **TURN OFF DISTRACTIONS**
- REPLACE SNACK BREAKS W. **EXERCISE**
- **EAT SLOWLY**
- DO NOT EAT UNTIL HUNGRY
- **SMALLER PORTIONS PLATES**
- MAKE "GOOD FOOD CHOICES" EASIER
- **EAT ONLY IN THE KITCHEN**

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MORE SUGGESTIONS

- DRINK WATER BEFORE EATING
- GO "OUT" FOR DESSERTS
- DO NOT SKIP MEALS!
- NO SERVING DISHES ON THE TABLE
- CUT BACK ON GRAVIES, SAUCES, ETC
- **ENTRÉE PREPARATION**

"TABLE STATE OF THE SECOND

- BROILED, STEAMED, BAKED, GRILLED, POACHED, OR ROASTED
- FRESH FRUIT & VEGETABLES!

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NUTRITION PLAN FOR WEIGHT LOSS

- MODERATE GOALS (1-2 LB. PER WEEK)
- **HEALTHY REWARDS**
- GO BACK TO YOUR PLAN
- REPUTABLE SOURCES
 - REGISTERED DIETITIANS, PROFESSIONALS
- AVOID QUICK LOSS PROGRAMS
- SOUND DIETARY GUIDELINES

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EATING DISORDERS

&ANOREXIA NERVOSA

- &1/100 FEMALES BETWEEN 12 AND 18
- &DRASTIC WEIGHT LOSE
- # 10-25% BELOW IDEAL WEIGHT
- **MIDDLE CLASS HOME**
- &POOR SELF IMAGE
- &DESIRE TO PLEASE-PERFECTION
- &LACK OF ATTENTION MOODS
- &PREOCUPIED W FOOD & WEIGHT
- &BAGGY CLOTHING
- &EXCESSIVE EXERCISE

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BULIMIA

- # APPROX. 25% OF COLLEGE WOMEN
- CYCLE OF DIETING, BINGEING, PURGING
- SIMILAR BACKGROUNDS AS **ANOREXICS**
- # 30-50% OF ANOREXICS ARE BULIMIC
- MAY BE LIFE-THREATENING
- LARGE WEIGHT GAINS & LOSSES
- BATHROOM VISITS AFTER MEALS
- **■** DEPRESSION
- EATING OUT OF CONTROL

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TREATING EATING DISORDERS

- ↑ HOSPTALIZATION IF UNDER 10% OF **IDEAL BODY WEIGHT**
- **↑ MEDICATION FOR ANXIETY OR DEPRESSION**
- **↑ INDIVIDUAL PSYCHOTHERAPY**
- **↑** GROUP THERAPY
- **↑FAMILY THERAPY**
- **↑SUPPORT GROUPS**

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OTHER FACTORS

- **EMOTIONAL PROBLEMS**
- FOOD AS REWARD... FOCAL POINT
- MENUS/CHOICES
- IGNORE INTERNAL CUES OF HUNGER AND "USE THE CLOCK" TO EAT.
- NOT AWARE OF CALORIC INTAKE
- LESS ACTIVE THAN THEY THINK

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IMPROVE YOUR NUTRITIONAL INTAKE

- ACCURATE INFORMATION
- SELF-KNOWLEDGE ABOUT EATING **PATTERNS**
- SET RATIONAL GOALS
- SOCIAL AND COMMUNITY SUPPORTS

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TRIGGERS TO EATING

- TIME OF DAY
- INATTENTION
- MOOD
- HABIT
- BOREDOM
- **HUNGER?**
- STRESS/ANXIETY
- APPETITE?
- HORMONAL
- LOW SELF
- CHANGES
- **ESTEEM**
- PEER/FAMILY
- **ENVIRONMENT**
- PRESSURE
 - SIGHT/SMELL

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STOPPING THE EAT RESPONSE

- ACT RESPONSIBLY
- STRESS MANAGEMENT
- BREAK THE HABIT
- REMAIN ACTIVE
 ANALYZE
 EMOTIONAL
- PROBLEMS

 MAKE EFFORT

- HUNGER OR APPETITE?
- AVOID ENVIRONMENTAL TRIGGERS
- SELECT ALTERNATIVES
- PLAN FOR PROBLEM SITUATIONS

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WEIGHT CONTROL

- TECHNIQUES FOR ASSESSING
- HEREDITY VS. ENVRONMENT
- FOOD INTAKE & METABOLISM
 - BROWN FAT, SATIETY, HUNGER, APPETITE, HYPERPLASIA, SET POINT
- TRIGGERS TO EAT & CHANGING
- HIDDEN MESSAGES

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